

# **COMPREHENSIVE (PHASE 2) REVIEW AND UPDATE TO THE BAY-DELTA PLAN**

## **Workshop 3 Analytical Tools for Evaluating Water Supply, Hydrodynamic and Hydropower Effects**

Tuesday, November 13, 2012  
Continuing on Wednesday, November 14, 2012

9:00 a.m. to 5:00 p.m.  
Joe Serna, Jr.-Cal/EPA Building  
Coastal Hearing Room  
1001 I Street, Second Floor  
Sacramento, CA 95814

Note: Times are approximate and may shift based on the length of presentations and/or the discretion of the Water Board

### **Day 1: 11/13/12**

9:00 – 9:10	Welcome, agenda review
9:10 – 10:40	Invited Panel
10:40 – 10:50	Break
10:50 – 11:10	Alternative modeling approaches
11:10 – 12:10	Regulatory / fishery agencies
12:10 – 1:00	Lunch
1:00 – 2:00	Resource management agencies
2:00 – 3:00	Environmental / NGO groups
3:00 – 3:15	Break
3:15 – 4:15	San Joaquin Valley water suppliers
4:15 – 5:00	State / Central Valley Project contractors

### **Day 2: 11/14/12**

9:00 – 9:15	Welcome, agenda review
9:15 – 9:30	Conclude State / Central Valley Project contractors
9:30 – 10:30	In-Delta water interests
10:30 – 10:40	Break
10:40 – 11:30	Dave Vogel Workshop 2 presentation
11:30 – 12:30	Sacramento Valley water suppliers
12:30 – 1:20	Lunch
1:20 – 2:20	Hydropower producers panel
2:20 – 3:20	CA energy agencies
3:20 – 3:35	Break
3:35 – 4:05	Public comments
4:05 – 5:05	Additional Water Board questions

### ***Invited Panel***

The Invited Panel assembled by Dr. Peter Goodwin, the Delta Science Program’s Lead Scientist, will focus on:

- The CalSim II water supply model and the DSM2 and RMA2 hydrodynamic models
- Plexus hydropower model
- Other models as applicable
- Results from applying these models to various scenarios

One or more of the following will make presentations:

Jon Burau	US Geological Survey
John DeGeorge	Resource Management Associates
John Durand	UC Davis
Greg Gartrell	Contra Costa Water District
Marianne Guerin	California Water and Environmental Modeling Forum
Jay Lund	UC Davis
Bill Smith	Montgomery Watson Harza
Peter Smith	US Geological Survey, retired
Mark Stacy	UC Berkeley

In addition, Elaine Archibald of the California Water and Environmental Modeling Forum will briefly describe the CWEMF’s capacity to assist the State Water Board.

### ***Alternative modeling approaches panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
ICF International	Russ Brown	Historical Data and DeltaOPS Model
SEI	David Purkey	CV-WEAP Model

### ***Regulatory / fishery agencies panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
CA Dept. Fish & Game	Bob Hughes Dean Marston Patrick Coulston	Available for Q&A period EC-5Q and SalSIM Perspective on biological models
US Dept. of Interior: Fish & Wildlife Service	Julie Zimmerman	Structured decision making
US EPA	Bruce Herbold	Available for Q&A period
US Nat’l Marine Fisheries	Candan Sokyan	Chinook salmon life-cycle modeling

### ***Resource management agencies panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
CA Dept. Water Resources	Parviz Nader / Tara Smith	General model descriptions
US Dept. of Interior: Bureau of Reclamation	Eric Reyes Mary Johannis  Tom Fitzhugh Derek Hiltz (FWS) Ron Milligan or Paul Fujitani	CALSIM II case study description Temperature models, CALSIM II case study, operational considerations

### ***Environmental / NGO panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
Bay Institute / NRDC	Peter Vorster	Uses and limitations of models in addressing alternative water management strategies
American Rivers	John Cain	Tools for adaptive management and floodplain restoration
CA Sportfishing Alliance / CA Water Impact Network	Tim Stroshane	Water availability analysis
The Nature Conservancy	Chris Shutes Leo Winternitz Clint Alexander	Water balance modeling Multispecies ecosystem effects Analysis using the Delta Ecological Flows Tool

### ***San Joaquin Valley water suppliers panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
San Joaquin Tributaries Assoc.	Gary Lorden Jay Bartroff Dan Steiner Avry Dotan	CDFG Escapement model

### ***State and Central Valley Project contractors panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
State Water Contractors, San Luis & Delta-Mendota Water Authority	Wayne Lifton Paul Hutton David Sunding  Ray Hilborn	Adaptive management Model to estimate natural flow Models for measuring the economic impact of changes in Delta water supplies Resolving scientific uncertainty

### ***In-Delta water interests panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
Bay Area Clean Water Agencies City of Antioch	Michael Connor Susan Paulsen	Available for Q&A period Modeling current and future water quality in the Delta

### ***Sacramento Valley water suppliers panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
N CA Water Assoc., Sacramento Valley Water Users	Walter Bourez Mark Petrie	Changes in condition and advances in analytical tools

### ***Hydropower producers panel***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
CA Municipal Utilities Assoc. State Water Contractors	Dave Modisette Timothy Haines	Overview Power capabilities, state energy laws, implications for SWRCB
Northern California Power Agency	Jerry Toenyes	CVP, possible power capabilities, and possible CVPIA impacts
CA Municipal Utilities Assoc.	Dave Modisette	Bay-Delta hydro resources, factors for SWRCB to consider in modeling

### ***California energy agencies***

<b>Agency</b>	<b>Presenter</b>	<b>Topic</b>
CA Energy Commission CA Public Utilities Commission CA Independent System Operator	Mike Jaske Nathaniel Skinner Dennis Peters	A joint presentation on various hydro- electric modeling approaches, the issues they are intended to illuminate, and applicability to flow criteria proposals